

12-13-05

IPW

CASE PC/4-32711A

FILING BY "EXPRESS MAIL" UNDER 37 CFR 1.10	
EV731064138 US	12/12/05
Express Mail Label Number	Date of Deposit

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PCT NATIONAL STAGE APPLICATION OF

Group Art Unit: 1615

GREGORY RAYMOND BEBERNITZ

INTERNATIONAL APPLICATION NO: PCT/EP03/10977

FILED: 2 OCTOBER 2003

U.S. APPLICATION NO: 10/529,670 ✓

35 USC §371 DATE: 29 MARCH 2005

FOR: SUBSTITUTED (THIAZOL-2-YL)-AMIDES OR SULFONAMIDES AS  
GLUCOKINASE ACTIVATORS USEFUL IN THE TREATMENT OF  
TYPE 2 DIABETES

**MS: Amendment**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant believes this paper is being filed before the mailing date of a first Office action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-0134.


In accordance with 37 C.F.R. §1.56, applicant wishes to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

The asterisked references were cited in the International Search Report and since copies of said references were forwarded by the International Bureau, only copies of the non-asterisked references are enclosed.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

Novartis  
Corporate Intellectual Property  
One Health Plaza, Building 104  
East Hanover, NJ 07936-1080  
(617) 871-3096

  
Cynthia Zhang  
Attorney for Applicant  
Reg. No. 53,827

Date: *December 9, 2005*

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.

PC/4-32711A

APPLICATION NO.

10/529,670

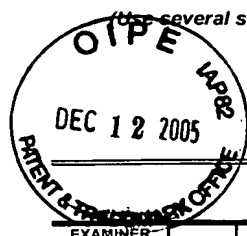
APPLICANT

Gregory Raymond Bebemitz

FILING DATE

MARCH 29, 2005

Group 1615



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	6,528,543	3/4/03	Bizzarro et al			
	AB	6,353,111	3/5/02	Corbett et al			
	AC	US2004/0014968	1/22/04	Bizzarro et al			
	AD	US 2004/0067939	4/8/04	Corbett			
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AM	*WO 02/046173	6/13/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AN	*WO 02/014312	2/21/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AO	*WO 02 008209	1/31/02	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AP	*WO 01 085707	11/15/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	AQ	*WO 01 085706	11/15/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AR	Brocklehurst, K. et al., "Stimulation of Hepatocyte Glucose Metabolism by Novel Small Molecule glucokinase Activators", Diabetes, Vol. 53, pp. 535-541, March 2004
	AS	Castelhano, A. et al., "Glucokinase-activating Ureas", Bioorg. Med. Chem. Lett., Vol. 15, pp. 1501-1504 (2005)
	AT	Grimsby, J. et al., "Allosteric Activators of Glucokinase: Potential Role in Diabetes Therapy", Science, Vol. 301, pp. 370-373, July 18, 2003

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.  
PC/4-32711A  
APPLICATION NO.  
10/529,670  
APPLICANT  
Gregory Raymond Bebermiz  
FILING DATE  
MARCH 29, 2005

Group 1615

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BM	*WO 01/ 083465	11/8/01	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BN	*WO 00/058293	10/5/00	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BO	*WO 03/055482	7/10/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BP	*WO 03/095438	11/20/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BQ						<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	BR	Leighton, B. et al., "Small Molecule glucokinase activators as novel anti-diabetic agents", Chemical Society Transactions, Vol. 33, part 2, pp. 371-374 (2005)
	BS	McKerrecher, D. et al., "Discovery, synthesis and biological evaluation of novel glucokinase activators", Bioorganic & Medicinal Chemistry Letters, Vol. 15, pp. 2103-2106 (2005)
	BT	Otaegul, P. et al., "Glucose-Regulated Glucose Uptake by Transplanted Muscle Cells Expressing Glucokinase Counteracts Diabetic Hyperglycemia", Human Gene Therapy, Vol. 13, pp. 2125-2133 (December 10, 2002)

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.  
PC/4-32711A  
APPLICATION NO.  
10/529,670  
APPLICANT  
Gregory Raymond Bebemitz  
FILING DATE  
MARCH 29, 2005

Group 1615

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BM	WO 03/047626	6/12/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BN	WO 04/002481	1/8/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BO	1 532 980	11/24/03	EUROPE			<input type="checkbox"/>	<input type="checkbox"/>
	BP	WO 03/015774	2/27/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BQ	WO 03/000262	1/3/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	BR	
	BS	
	BT	

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

ATTY. DOCKET NO.

PC/4-32711A

APPLICATION NO.

10/529,670

APPLICANT

Gregory Raymond Beberitz

FILING DATE

MARCH 29, 2005

Group 1615

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
	BM	WO 04/052869	6/24/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BN	WO 00/58293	10/5/00	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	BO						<input type="checkbox"/>	<input type="checkbox"/>
	BP						<input type="checkbox"/>	<input type="checkbox"/>
	BQ						<input type="checkbox"/>	<input type="checkbox"/>

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent pages, Etc.)

	BR	
	BS	
	BT	

**EXAMINER**

**DATE CONSIDERED**

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.